# FOR BOARD-TO-CABLE CONNECTION

## 240R SERIES

### ■ FEATURES

- 1.27 mm (0.050 in.) pitch contact arrangement enables high-density mounting.
- Bellows contacts ensure stable contact preventing pins from bending. The bellows contacts also have excellent stability with repeated insertion and extraction.
- Cables and connectors are assembled by discrete wire IDC.
- Connectors on the cable side provide superb EMI shielding/ESD protection with an inner-metal and outer-plastic dual cover.
- Conforms to IEEE 1284.C Interface
- Tails are spaced in a four-row staggered arrangement (2.54 mm × 1.905 mm) (0.100 in. × 0.075 in.) for easy PC board design.



### ■ SPECIFICATIONS

| Item | Specifications |
|---|---|
| Operating temperature range | –55°C to +85°C |
| Current rating | DC 1 A |
| Voltage rating | AC 240 V |
| Contact resistance | 50 mΩ max. (DC 20 mV, 10 mA) |
| Insulation resistance | 1,000 MΩ min. (DC 500 V) |
| Dielectric withstand voltage | AC 750 V for 1 minute |
| Applicable wire | AWG #28 and #30 stranded wires with ϕ0.5 to 0.65 mm (0.020 to 0.026 in.) insulation diameter |

### ■ MATERIALS

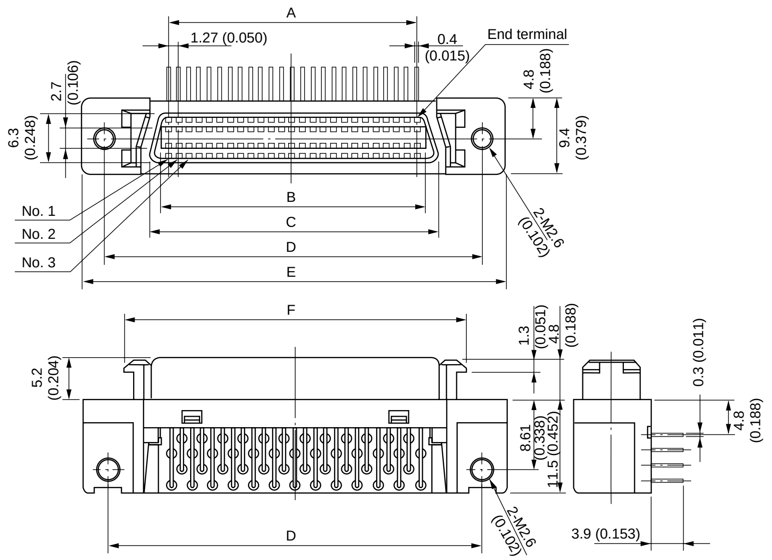
| Item | Materials | |
|---|---|---|
| Insulator | Polyester (UL94V-0) | |
| Conductor | Copper alloy | |
| Plating | Contact | Gold plating |
| | Terminal | Palladium plating |

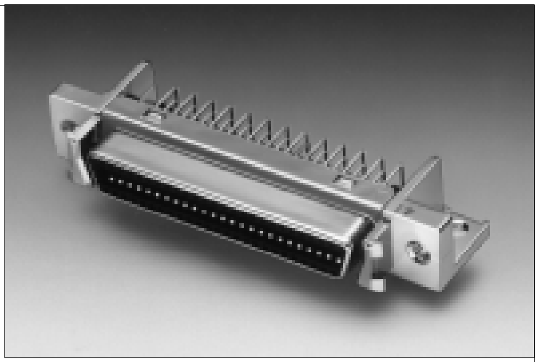
### ■ ORDERING CODE

FCN-24 5 D 050-G / E

- E: Metal type (board side) or metal type for discrete wire IDC (cable side)
  G: Metal type for wire to wire heat bonded multi cable IDC
  S: Cover
- G: Gold plating
  A: Cover
  B: Wide-hole cover
- Number of contacts: 20, 26, 36, 50, 68, or 80
- Unit type
  D: Socket
  R: Plug
  C: Cover
- Tail type
  0: Cover
  4: Straight
  5: Right-angle
  7: IDC
- 240 series
- Fujitsu connector

## RIGHT-ANGLE SOCKET [METAL SHELL]
## ■ DIMENSIONS

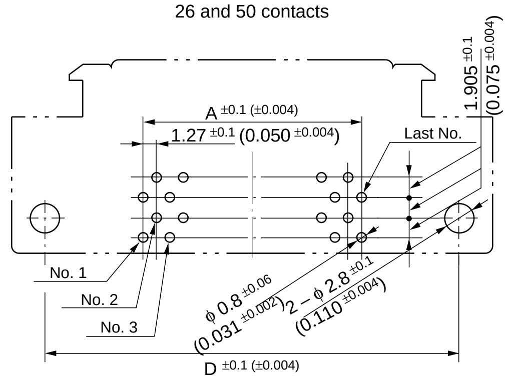


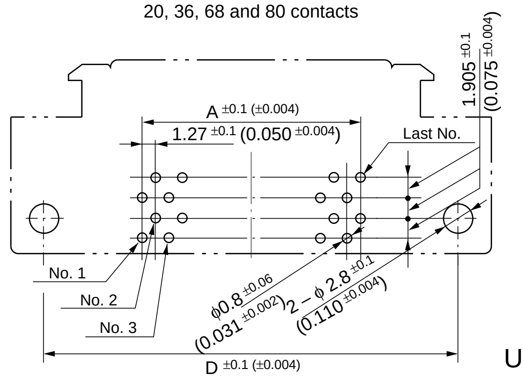
Unit: mm (in.)

## ■ MOUNTING HOLE LAYOUT (COMPONENT SIDE)

26 and 50 contacts

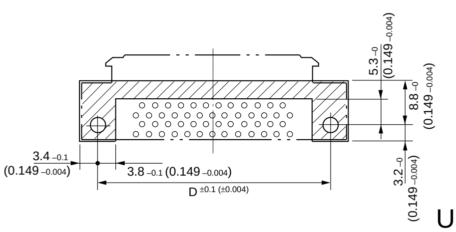



20, 36, 68 and 80 contacts



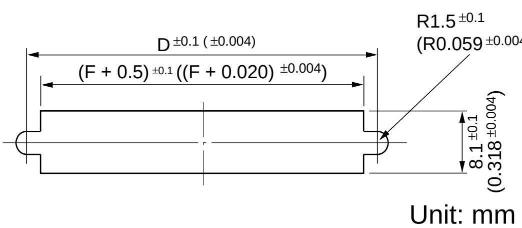

Unit: mm (in.)

## ■ PATTERN INHIBITED AREAS



Unit: mm (in.)

## ■ RECOMMENDED PANEL DIMENSIONS



Unit: mm (in.)

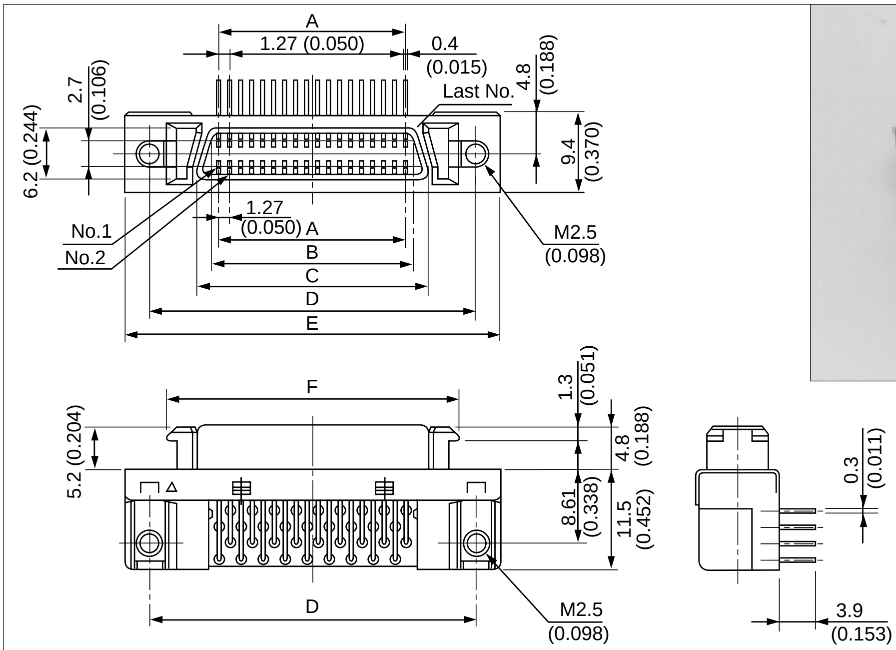
## ■ PART NUMBERS AND DIMENSIONS

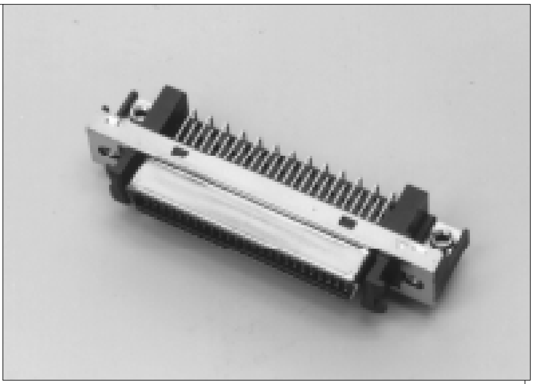
Unit: mm (in.)

| Number of contacts | Part number | A | B | C | D | E | F |
|---|---|---|---|---|---|---|---|
| 20 | FCN-245D020-G/E | 11.43 (0.450) | 13.45 (0.529) | 16.45 (0.647) | 27.45 (1.080) | 33.35 (1.312) | 23.30 (0.917) |
| 26 | FCN-245D026-G/E | 15.24 (0.600) | 17.26 (0.679) | 20.26 (0.797) | 31.26 (1.231) | 37.16 (1.462) | 27.11 (1.067) |
| 36 | FCN-245D036-G/E | 21.59 (0.850) | 23.61 (0.929) | 26.61 (1.047) | 37.61 (1.480) | 43.51 (1.712) | 33.46 (1.317) |
| 50 | FCN-245D050-G/E | 30.48 (1.200) | 32.50 (1.279) | 35.50 (1.397) | 46.50 (1.830) | 52.40 (2.062) | 42.35 (1.667) |
| 68 | FCN-245D068-G/E | 41.91 (1.650) | 43.93 (1.729) | 46.93 (1.847) | 57.93 (2.280) | 63.83 (2.512) | 53.78 (2.117) |
| 80 | FCN-245D080-G/E | 49.53 (1.950) | 51.55 (2.029) | 54.55 (2.147) | 65.55 (2.580) | 71.45 (2.812) | 61.40 (2.417) |

## RIGHT-ANGLE SOCKET [LIGHTWEIGHT TYPE]

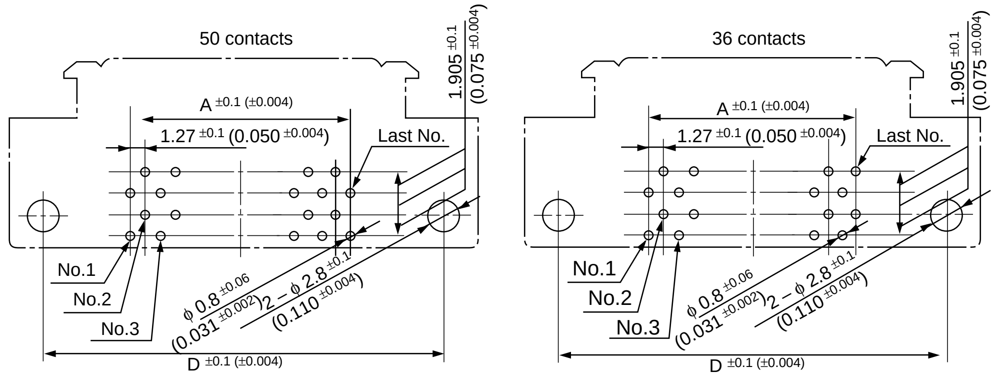
## ■ DIMENSIONS





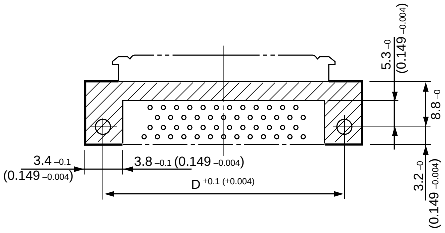
Unit: mm (in.)

## ■ MOUNTING HOLE LAYOUT (COMPONENT SIDE)



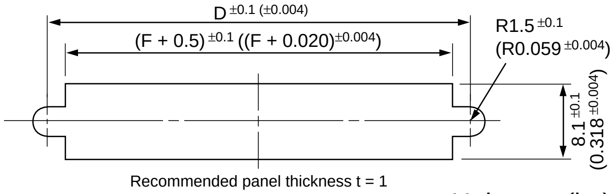
Unit: mm (in.)

## ■ PATTERN INHIBITED AREAS



Unit: mm (in.)

## ■ RECOMMENDED PANEL DIMENSIONS



Recommended panel thickness t = 1

Unit: mm (in.)

## ■ PART NUMBERS AND DIMENSIONS

Unit: mm (in.)

| Number of contacts | Part number | A | B | C | D | E | F |
|---|---|---|---|---|---|---|---|
| 36 | FCN-245D036-L/L | 21.59 (0.850) | 23.61 (0.929) | 26.61 (1.047) | 37.61 (1.480) | 43.51 (1.712) | 33.46 (1.317) |
| 50 | FCN-245D050-L/L | 30.48 (1.200) | 32.50 (1.279) | 35.50 (1.397) | 46.50 (1.830) | 52.40 (2.062) | 42.35 (1.667) |

∗ This socket is 40% lighter than a socket with die cast shell.

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